RCI Mobile Application Using Tablets for RCI Field data Collection

A Bridge Between The Office and The Field Inventory!





- The Office
- The Field
- Bridging The Field and The Office
- Advantages

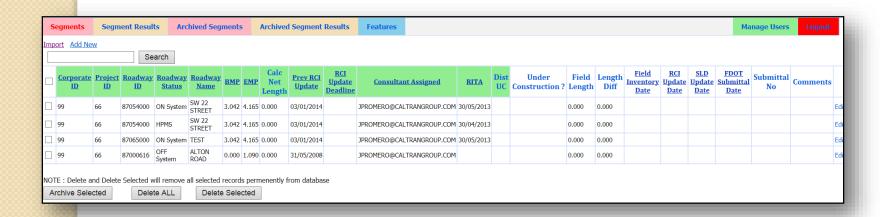
The Office

New WEB application in Amazon Cloud Server



The Office

• RCI Table uploaded



• IPAD contains the RCI Mobile Inventory App.



Application working with the latest IOS



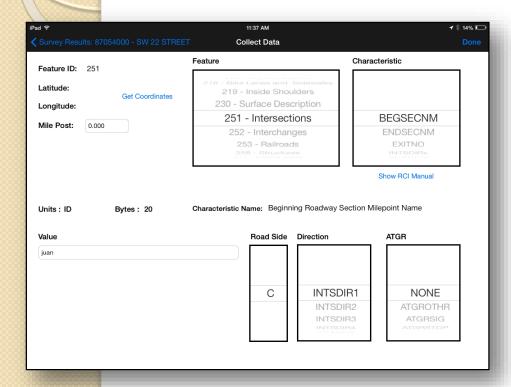


- Login by User Oriented
- •VUD-like Screen Information per segment.





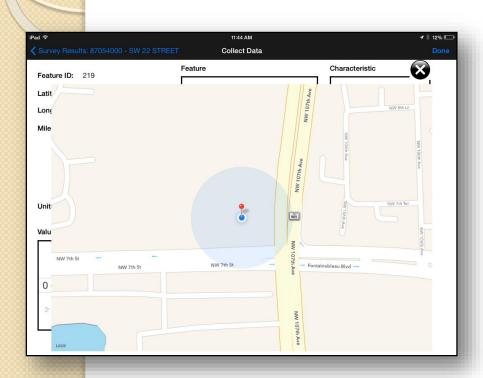
Traditional Data Collection Two Tech Team
But with phone/internet Hot-Spot Connectivity



 All features and Characteristics are Included in the IPAD

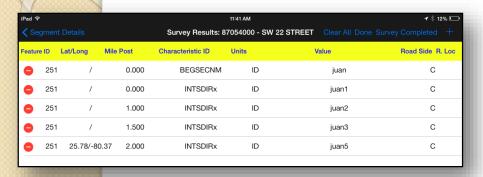
Can Collect GPS or MilePost

Collects HPMS Features



- Provides Instant Geopositioning
- Hyperlink to RCI Manual







- Table Generated Output
- Data Can be Edited during field inventory
- •Inventoried segment can be set in a draft or final completion.



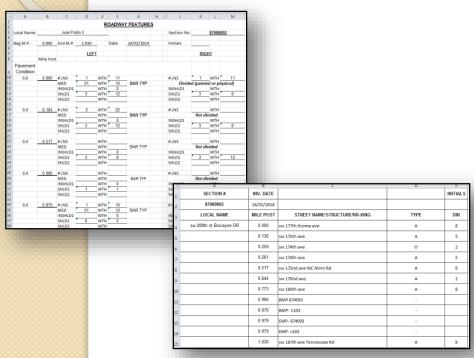
- •Upon Completion, results can be transmitted to the office without need for techs to return from the field.
- •Segments results can also be archived



•Office staff will be able to pick up issues fast and call the field team to validated the same day.

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SegmentID	CorporationName	ProjectName	Roadway ID	Roadway Name	FeaturesName	PropertiesUnit		LATION	MILE POST	CharacteristicsName	SurveyResName	Value	Roadside		Direction	n A
564	CALTRAN	Planning	87000002	Juan Pablo 2	LOCALNAM		114	/	0	Posted or Known Local Street Name	ID	sw 288th st Biscayne DR		24/02/2014		
564	CALTRAN	Planning	87000002	Juan Pablo 2	Type Road		120	/	0	Type of Road	CD	2 - Divided (painted or physical)	C	24/02/2014		
564	CALTRAN	Planning	87000002	Juan Pablo 2	Through Lanes		212	/	0	Total Through Lanes Surface Width		11		24/02/2014		I
564	CALTRAN	Planning	87000002	Juan Pablo 2	Through Lanes		212	/	0	Number of Through Roadway Lanes	EA	1	L	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Through Lanes		212	/	0	Total Through Lanes Surface Width	FT	11	R	24/02/2014		Ι
564	CALTRAN	Planning	87000002	Juan Pablo 2	Through Lanes		212	/	0	Number of Through Roadway Lanes	EA	1	R	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	/	0	Other Highway Shoulder Width (x=2,3)	FT	12	L	24/02/2014		Ι
												3 - Lawn (number of feet to support road				Т
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	/	0	Other Highway Shoulder Type (x=2,3)	CD	bed)	L	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	/	0	Other Highway Shoulder Width (x=2,3)	FT	8	R	24/02/2014		Т
												3 - Lawn (number of feet to support road				Т
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	/	0	Other Highway Shoulder Type (x=2,3)	CD	bed)	R	24/02/2014		П
564	CALTRAN	Planning	87000002	Juan Pablo 2	Highway Median		215	/	0	Highway Median Width	FT	10	С	24/02/2014		Т
564	CALTRAN	Planning	87000002	Juan Pablo 2	Highway Median		215	/	0	Type of Median	CD	01 â€" Paved	С	24/02/2014		1
										Beginning Roadway Section Milepoint						T
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251	/	0	Name	ID	sw 177th Krome ave	c	24/02/2014	INTSDIRE	Н
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251	/	0	Intersection Surface Type (x=1-9)	CD	A - Asphaltic Concrete	С	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Type Road		120	/	0.104	Type of Road	CD	0 - Not divided	С	24/02/2014		٦
564	CALTRAN	Planning	87000002	Juan Pablo 2	Through Lanes		212	/	0.104	Total Through Lanes Surface Width	FT	22	С	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Through Lanes		212	/	0.104	Number of Through Roadway Lanes	EA	2	С	24/02/2014		٦
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	/	0.104	Other Highway Shoulder Width (x=2,3)	FT	12	L	24/02/2014		ī
		_										3 - Lawn (number of feet to support road				-
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	,	0.104	Other Highway Shoulder Type (x=2.3)	CD	bed)	L.	24/02/2014		
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	/	0.104	Other Highway Shoulder Width (x=2,3)	FT	8	B	24/02/2014		٦
						1						3 - Lawn (number of feet to support road		-,		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	,	0.104	Other Highway Shoulder Type (x=2.3)	CD	bed)	R	24/02/2014		
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251	/	0.13	Intersection Direction (x=1-9)	ID	sw 175th ave	C	24/02/2014	INTSDIRS	П
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251	/	0.13	Intersection Surface Type (x=1-9)	CD	A - Asphaltic Concrete	c	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251	/	0.259	Intersection Direction (x=1-9)	ID	sw 174th ave	C	24/02/2014	INTSDIR2	7
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251	/	0.259	Intersection Surface Type (x=1-9)	CD	Q - Other	c	24/02/2014		1
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251		0.261	Intersection Direction (x=1-9)	ID	sw 174th ave	C	24/02/2014	INTSDIRS	đ
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251		0.261	Intersection Surface Type (x=1-9)	CD	A - Asphaltic Concrete	C	24/02/2014		7
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214		0.517	Other Highway Shoulder Width (x=2,3)	FT	8	1	24/02/2014		-
301	CHETTON		O TOURS	Junior E	OBISIOC SHOUIDERS				0.047	outer ringimary shoulder amount (x-z)sy		3 - Lawn (number of feet to support road		24) 022 2024		-
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214	,	0.517	Other Highway Shoulder Type (x=2.3)	CD	bed)		24/02/2014		
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214		0.517	Other Highway Shoulder Width (x=2,3)	FT	12	0	24/02/2014		+
				200	outside shoulders					one ing. and second winder (x-2,3)		3 - Lawn (number of feet to support road	-	24 02/2024		+
564	CALTRAN	Planning	87000002	Juan Pablo 2	Outside Shoulders		214		0.517	Other Highway Shoulder Type (x=2.3)	CD	bed)		24/02/2014		
564	CALTRAN	Planning	87000002	Juan Pablo 2	Intersections		251		0.517	Intersection Direction (x=1-9)	ID	sw 172nd ave MC Minn Rd	-	24/02/2014		Н

 Output exported to standard Excel format for secondary QA/QC



Post-Processing to RCI/HPMS Standard Sheets

 Output could eventually be uploaded directly to the RCI mainframe

Overall Advantages

- •Fast connection between Field and Office Staff
- •Reduce coding misunderstandings due to illegible handwriting.
- •Reduce turnaround time between office and field.
- •Different administration and users levels capabilities
- •Easy update of features and characteristics
- •Traditional effort but with XXI century approach